

Name _____

Period _____

Lewis Structure Worksheet #2

Draw Lewis Structures for each of the following molecules or ions:

1. Br_2	2. BH_3
3. O_2	4. PS_3^-
5. H_2CS	6. CHCl_3
7. SF_2	8. SHF
9. N_2F_4	10. XeO_4
11. N_2O_3 (dinitrogen trioxide)*	12. NO_2 (nitrogen dioxide)*
13. N_2O_4 (dinitrogen tetraoxide)*	14. N_2O_5 (dinitrogen pentaoxide)*

*Problems 11-14 are more challenging and may have more than one correct structure. Please note that if a molecule has an odd number of valence electrons, at least one atom in the molecule will NOT fulfill the octet rule.

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Lewis Structure Worksheet #1

Read the Instructions for Drawing Lewis Structures worksheet carefully and draw Lewis structures for each of the following molecules:

Group A: Simple Molecules

CH_4	NH_3	H_2O	SiF_4	NCl_3

Group B: Polyatomic Ions

PO_4^{3-}	ClO_3^-	ClO_4^-	SO_3^{2-}

Group C: Multiple Bonds

H_2CO	HCN	CO	CO_2